



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FLUID CATALYTIC CRACKING					P13.2
System 2: FRACTIONATION SECTION, FCCU 152					S4.2, S4.3, S13.6, S13.12, S15.2, S15.3
COLUMN, DEPENTANIZER, D-201, HEIGHT: 74 FT 11 IN; DIAMETER: 9 FT 6 IN A/N: 494936	D16				
COLUMN, DEPROPANIZER, D-203, HEIGHT: 82 FT 4 IN; DIAMETER: 6 FT 11 IN A/N: 494936	D17				
COLUMN, DEPENTANIZER, D-204, HEIGHT: 82 FT 1 IN; DIAMETER: 6 FT A/N: 494936	D18				
COLUMN, DEBUTANIZER, D-205, HEIGHT: 82 FT 5 IN; DIAMETER: 7 FT 6 IN A/N: 494936	D19				
VESSEL, D-206, POLYSULFIDE, HEIGHT: 67 FT 4 IN; DIAMETER: 10 FT A/N: 494936	D20				
ABSORBER, D-207, P.P. H ₂ S, HEIGHT: 56 FT 3 IN; DIAMETER: 4 FT A/N: 494936	D21				
COLUMN, DEETHANIZER, STRIPPER SECTION, D-651A, WITH 15 TRAYS, IDLED, HEIGHT: 49 FT; DIAMETER: 11 FT 6 IN A/N: 494936	D22				
KNOCK OUT POT, F-12, HEIGHT: 16 FT; DIAMETER: 9 FT 6 IN A/N: 494936	D25				
COMPRESSOR, GG-703, HOT GAS A/N: 494936	D1503				
VESSEL, RECEIVER, F-14, HEIGHT: 16 FT; DIAMETER: 7 FT A/N: 494936	D26				

- * (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator



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VESSEL, RECEIVER, F-203, LENGTH: 22 FT; DIAMETER: 9 FT A/N: 494936	D27				
ACCUMULATOR, RECEIVER, F-204, DEPROPANIZER OVERHEAD, LENGTH: 21 FT 1 IN; DIAMETER: 6 FT 10 IN A/N: 494936	D28				
ACCUMULATOR, F-206, DEPENTANIZER OVERHEAD, LENGTH: 21 FT 1 IN; DIAMETER: 6 FT 10 IN A/N: 494936	D29				
TANK, HOLDING, F-213, AO 37 INHIBITOR, LENGTH: 30 FT; DIAMETER: 3 FT A/N: 494936	D30				
DRUM, HOLDING, F-711, AO 37 INHIBITOR DIAMETER: 2 FT 6 IN; HEIGHT: 8 FT A/N: 494936	D1810				
VESSEL, PP/MEA SEPARATOR, F-219, LENGTH: 15 FT 1 IN; DIAMETER: 4 FT 2 IN A/N: 494936	D32				
TANK, HOLDING, F-653, DEETHANIZER FEED, LENGTH: 30 FT; DIAMETER: 12 FT A/N: 494936	D33				
TANK, SURGE, F-702, WASTE WATER, LENGTH: 11 FT 9 IN; DIAMETER: 6 FT 6 IN A/N: 494936	D34				
ACCUMULATOR, RECEIVER, F-205, DEBUTANIZER OVERHEAD, LENGTH: 16 FT 7 IN; DIAMETER: 5 FT A/N: 494936	D35				
VESSEL, COALESCER, F-455, LENGTH: 16 FT 4 IN; DIAMETER: 60 IN A/N: 494936	D750				
COLUMN, DEETHANIZER, STRIPPER SECTION, D-650, WITH 28 TRAYS, HEIGHT: 74 FT; DIAMETER: 10 FT A/N: 494936	D1671				

- * (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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COLUMN, DEPENTANIZER, ABSORBER SECTION, D-651B, WITH 32 TRAYS, HEIGHT: 71; DIAMETER: 6 FT 6 IN A/N: 494936	D1672				
TRAP, SUCTION LIFT, F-651, HEIGHT: 2 FT; DIAMETER: 1FT 2 IN A/N: 494936	D1811				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 494936	D1566			[HAP]: (10)[40 CFR 63 SUBPART CC, #5A, 5-25-2001]	H23.3

- * (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[**RULE 401, 3-2-1984**; RULE 401, 11-9-2001]

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[**RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[**40CFR 68 – Accidental Release Prevention, 5-24-1996**]



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- F25.1 The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/TitleV permit issued by the AQMD pursuant to Rule 201 – Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

[**RULE 2004, 5-11-2001**; **RULE 2004, 4-6-2007**]

- F34.2 The operator shall not sell refinery gas containing sulfur compounds in excess of 40 ppmv, calculated as hydrogen sulfide, averaged over 4-hour period.

[**RULE 431.1, 6-12-1998**]



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The operator shall comply with the terms and conditions set forth below:

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR79

40CFR80

California Code of Regulations, Title 13, Division 3, Chapter 5

[40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999; CCR Title 13, 9-24-1999]

F52.2 This facility is subject to the applicable requirements of the following rules or regulation(s):

CONSENT DECREE CIVIL NO. H-05-0258. The facility shall send the District a copy of the semiannual updates sent to the EPA of the specific requirement of emission standards and limitations from the Consent Decree as well as dates of compliance for the requirement not yet fulfilled.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

F52.3 This facility is subject to the applicable requirements of the following rules or regulation(s):

40 CFR 60 SubpartA

40 CFR 61 SubpartA

40 CFR 63 SubpartA

[40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

PROCESS CONDITIONS

P13.2 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	40CFR61, SUBPART	FF

[**40CFR 61, SUBPART FF, 12-4-2003**]

[Processes subject to this condition: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 18]

SYSTEM CONDITIONS

S4.2 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

[RULE 1303(a)(1)-BACT,5-10-1996; 40CFR 60 Subpart QQQ, 5-5-1989]

[Systems subject to this condition: Process 1, System 2; Process 6, System 1]



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S4.3 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in Rule 1173, except valves and flanges shall be inspected quarterly using EPA reference method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection.

Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to leakless valves.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District. The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on the actual components installed and



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The operator shall comply with the terms and conditions set forth below:

removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation.

[RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: Process 1, System 2]

- S13.6 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

[**RULE 1123, 12-7-1990**]

[Systems subject to this condition: Process 1, System 1, 2; Process 2, System 1, 2, 3, 4, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 5, System 1; Process 6, System 1; Process 8, System 1; Process 9, System 1, 3, 4, 5, 6; Process 10, System 1, 2, 4, 5; Process 17, System 6, 7; Process 18, System 1, 2]

- S13.12 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR 60 Subpart	GGG

Compressor GG-703 (device ID D1503) is not subject to Subpart GGG per



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The operator shall comply with the terms and conditions set forth below:

applicability date.

RULE 1173, 5-13-1994; RULE 1173, 6-1-2007; 40CFR 60 Subpart GGG, 6-2-2008]

[Systems subject to this condition: Process 1, System 2]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a vapor recovery system or/and blowdown flare system except Devices IDs D1, D7, D210, D213, D214, D773, D775 TO D785 that vent to the atmosphere and Device ID D772 that normally vents to heater D1349 when hydrogen is being produced and vents to atmosphere when hydrogen is not produced.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 05/10/96; RULE 1303(b)(2)-Offset, 05/10/96]

[Systems subject to this condition: Process 1, System 1, 2; Process 2, System 1, 2, 3, 4, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 5, System 1; Process 6, System 1; Process 8, System 1, 2; Process 13, System 4, 6; Process 18, System 1, 2]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the fuel gas treating unit.

This process/system shall not be operated unless the fuel gas treating unit is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 05/10/96; RULE 1303(b)(2)-Offset, 05/10/96]

[Systems subject to this condition: Process 1, System 1, 2; Process 2, System 1, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 6, System 1; Process 8, System 1, 2; Process 18, System 1, 2]



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DEVICE CONDITIONS

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

[**RULE 1173, 5-13-1994**; RULE 1173, 6-1-2007; **40CFR 60 Subpart GGG, 6-2-2008**]

[Devices subject to this condition: D253, D1566,D1569,D1571,D1589,D1621]